Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

ILLINOIS, South

WILLIAMSON COUNTY --- HERRIN [37.80, -89.03]

06/01/13 00:15 CST 25K Thunderstorm Wind (EG 52 kt) 06/01/13 00:15 CST 0 Source: Trained Spotter

Shingles were blown off roofs. Three to six-inch diameter limbs were blown out of trees at the north end of town.

WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08], 3.5 S CRAINVILLE [37.70, -89.07]

Winds gusted to 60 mph from Carterville across southwest Williamson County, resulting in downed tree limbs and power outages.

FRANKLIN COUNTY --- BENTON [38.00, -88.92]

06/01/13 00:30 CST 3K Heavy Rain

06/01/13 01:30 CST 0 Source: Emergency Manager

Vehicles stalled on a few water-covered roadways throughout the city.

WILLIAMSON COUNTY --- 1.2 NNW ABSHER [37.70, -88.74]

 06/01/13 00:55 CST
 10K
 Thunderstorm Wind (EG 52 kt)

 06/01/13 00:55 CST
 0
 Source: Emergency Manager

In a very rural area of extreme southeast Williamson County, several trees were blown down and one pole barn was damaged.

MASSAC COUNTY --- 2.4 SSE ROUND KNOB [37.22, -88.73], METROPOLIS [37.15, -88.73]

06/01/13 02:00 CST 3K Heavy Rain

06/01/13 12:00 CST 0 Source: Trained Spotter

A spotter near Round Knob measured 4.87 inches of rain. The majority of the heavy rain fell in a six-hour window ending at 0800 Local Standard Time. There was considerable street flooding in Metropolis. Two cars were flooded with about three inches of water in them.

ALEXANDER COUNTY --- CAIRO [37.00, -89.18]

06/01/13 02:30 CST 0 Heavy Rain

06/01/13 05:31 CST 0 Source: Broadcast Media

A rainfall of 3.97 inches accumulated in less than four hours.

A mesoscale convective system that originated over the Missouri Ozarks maintained strength as it moved through the middle Mississippi Valley during the overnight hours. Isolated wind damage accompanied this system. The system slowed down and then stalled as it crossed the Lower Ohio Valley very early in the morning. The stalled thunderstorm complex produced heavy rainfall amounts in extreme southern Illinois.

ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.9 WNW THEBES JCT [37.20, -89.46], 0.7 NW THEBES JCT [37.21, -89.46], 0.5 ESE THEBES [37.22, -89.46]

06/01/13 04:00 CST 40K Flood (due to Heavy Rain) 06/24/13 02:00 CST 0.15M Source: River/Stream Gage

Major flooding occurred along the Mississippi River near Thebes. There was extensive flooding of low-lying agricultural land, riverside parks, and river access roads. Many farmers had not yet planted due to the prolonged spring flooding, so crop losses were minimal. The river crested at 43.62 feet on the Thebes river gage on the 7th. Flood stage there is 33 feet.

WAYNE COUNTY --- WAYNE CITY [38.35, -88.58], 3.0 E MAYBERRY [38.27, -88.49], 2.4 W BARNHILL [38.27, -88.41], 2.0 S SIMS [38.34, -88.52]

 06/01/13 07:00 CST
 5K
 Flood (due to Heavy Rain)

 06/04/13 05:00 CST
 0
 Source: River/Stream Gage

Minor flooding occurred along the Skillet Fork River in the Wayne City area. Low-lying fields, woodlands, and river access roads were flooded.

JACKSON COUNTY --- 2.1 WSW MURPHYSBORO [37.76, -89.37], 2.2 W MT CARBON [37.76, -89.37], 1.2 W MT CARBON [37.75, -89.35], 1.4 WNW MT CARBON [37.75, -89.35]

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Location Date/Time Deaths & Property & **Event Type and Details** Injuries Crop Dmg 06/02/13 08:00 CST 10K Flood (due to Heavy Rain) 06/16/13 04:00 CST 10K Source: River/Stream Gage Moderate flooding occurred along the Big Muddy River at and near Murphysboro. Riverside parks, access roads, and low-lying fields were flooded. The river crested at 30.75 feet on the Murphysboro river gage on the 6th. Flood stage there is 22 feet. WHITE COUNTY --- 2.6 ENE BROWNSVILLE [38.04, -88.21], 2.9 SSW CARMI [38.04, -88.18], 1.7 SSE CARMI MUNI ARPT [38.08, -88.14], 1.2 SW CARMI [38.07, -88.18] 06/03/13 09:00 CST 2K Flood (due to Heavy Rain) 06/15/13 02:00 CST 10K Source: River/Stream Gage Minor flooding occurred along the Little Wabash River near Carmi. There was minor flooding of low-lying fields and river access roads. FRANKLIN COUNTY --- 1.4 E ZEIGLER [37.90, -89.02], 1.3 SSE ZEIGLER [37.88, -89.04], 2.1 S ZEIGLER [37.87, -89.06], 1.1 W PLUMFIELD [37.88, -89.02] 06/03/13 12:00 CST 0 Flood (due to Heavy Rain) 06/16/13 04:00 CST 10K Source: River/Stream Gage Minor flooding occurred along the Big Muddy River at and near Plumfield. Riverside access roads and low-lying fields were flooded. ALEXANDER COUNTY --- 1.9 SE CAIRO [36.98, -89.15], 2.3 ESE CAIRO [36.99, -89.14], 1.3 E CAIRO [37.00, -89.16], 1.2 ESE CAIRO [36.99, -89.16] 06/04/13 16:00 CST 0 Flood (due to Heavy Rain) 06/20/13 03:00 CST 50K Source: River/Stream Gage Minor flooding occurred along the Ohio River near Cairo. Low-lying agricultural land, state parkland, and river access roads were flooded. Many farmers had not yet planted due to the prolonged spring flooding, so crop losses were minimal. June turned out to be a very wet month across the region with many places 3 to 5 inches above normal. Heavy rain fell during the first two days of June and was scattered during the last half of the month. Many places saw more than 5 inches of rain fall for the month, and Paducah, KY recorded 9.11 inches. This was the fourth wettest June on record at Paducah. On the first, a daily record rainfall occurred at Paducah, where over 5.5 inches fell. The heavy rainfall across the Mississippi Valley and Lower Ohio Valley during the last few days of May and first couple days of June sent many rivers rising. Major flooding occurred on portions of the Mississippi River. Minor flooding occurred on portions of other smaller rivers. Flooding on the lowest part of the Ohio River was mainly backwater due to flooding on the Mississippi. The smaller rivers were back below flood stage fairly quickly, while the bigger rivers took most of the month to fall. FRANKLIN COUNTY --- 2.9 S PLUMFIELD [37.84, -89.01] 06/17/13 12:15 CST 20K Thunderstorm Wind (EG 52 kt) 06/17/13 12:15 CST 0 Source: Trained Spotter Thunderstorm winds tore the soffit off a garage and threw big waste cans about one-quarter mile. Several trees were snapped, a stop sign was damaged, and large branches were downed. A tree fell on a garage. The damage path was approximately 1 1/2 miles to 2 miles long. The damage occurred about one-half mile north of the Williamson County line and two miles west of Interstate 57. MASSAC COUNTY --- 2.1 SSE ROUND KNOB [37.22, -88.73] 06/17/13 13:20 CST 30K Thunderstorm Wind (EG 52 kt) Source: Trained Spotter 06/17/13 13:20 CST 0 A church under construction was blown down. Most of the framing had been erected. Thunderstorms developed and remained quasi-stationary in association with a surface low pressure center over the Mississippi River between St. Louis, Missouri and Cairo, Illinois. The storms were the result of the combination of the surface low, daytime heating, and a very moist atmosphere with precipitable water values approaching two inches. The storms were further enhanced by a 500 mb shortwave trough over southwest Missouri. FRANKLIN COUNTY --- 2.0 E WEST FRANKFORT [37.90, -88.88] 06/23/13 15:05 CST 16K Thunderstorm Wind (EG 52 kt) 06/23/13 15:05 CST 0 Source: Newspaper A few trees were uprooted. Several large tree limbs and power lines were knocked down. A camper was damaged.

FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92], THOMPSONVILLE [37.92, -88.77]

06/23/13 15:25 CST

06/23/13 16:30 CST

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Heavy Rain

Source: Emergency Manager

10K

0

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dma About six inches of water was over Highway 149 in places. Several back roads were impassable, and a few residents reported water getting into homes. Around 2.5 inches of rain was received during this event. PERRY COUNTY --- CUTLER [38.03, -89.57] 06/23/13 19:20 CST 0 Heavy Rain 06/23/13 21:00 CST 0 Source: Trained Spotter Route 150 west of Cutler was under about six inches of water. Three inches of water was over the road on the other side of town. Thunderstorms developed in a warm southerly wind flow ahead of low pressure over the Plains states. The storms were enhanced by a weak mid-level shortwave trough over the Lower Ohio Valley. JEFFERSON COUNTY --- 0.5 NW (MVN)MT VERNON ARPT [38.32, -88.88] 06/26/13 15:05 CST 30K Thunderstorm Wind (EG 56 kt) 06/26/13 15:05 CST 0 Source: Trained Spotter Numerous large trees were downed along the northwest side of the Mount Vernon airport. Power lines were brought down in the neighborhood. County Road 1380 North was blocked by a downed tree. JEFFERSON COUNTY --- 1.2 NNW DIX [38.45, -88.94] 06/26/13 15:15 CST 0 Funnel Cloud 06/26/13 15:15 CST 0 Source: Law Enforcement Illinois State Police reported a funnel cloud along Route 37 at the Marion County line. PERRY COUNTY --- DU QUOIN [38.02, -89.23] 06/26/13 17:45 CST 4K Thunderstorm Wind (EG 52 kt) 06/26/13 17:45 CST 0 Source: Trained Spotter Numerous tree limbs were blown down. The limbs ranged from 2 to 6 inches in diameter. UNION COUNTY --- ALTO PASS [37.57, -89.33] 0.20M Thunderstorm Wind (EG 83 kt) 06/26/13 18:50 CST

At least 15 trees, some of which were very large, were blown down. About ten houses were damaged by falling trees. Some of these houses sustained major damage. There were also vehicles damaged by falling trees.

A persistent cluster of thunderstorms intensified as it moved into a moist and very unstable air mass over southwest Indiana. The cluster of storms slowly expanded into a large mesoscale convective system that covered southern Illinois, western Kentucky, and the Mississippi River counties of extreme southeast Missouri. The convective system was supported by mid-level forcing associated with a weak disturbance, along with a low-level inflow of warmer air from the southwest. Modest westerly wind flow through the depth of the atmosphere increased the risk of potentially damaging winds.

06/26/13 18:50 CST

| WABASH COUNTY 1.5 E MT CARMEL [38.42, -87.74], 2.0 NE MT CARMEL [38.44, -87.74], 1.6 NE MT CARMEL [38.44, -87.75], 1.1 ENE MT | |
|---|--|
| CARMEL [38.42, -87.75] | |

 06/29/13 01:00 CST
 4K
 Flood (due to Heavy Rain)

 06/30/13 23:59 CST
 20K
 Source: River/Stream Gage

0

Minor flooding occurred along the Wabash River in the Mount Carmel area. Many river cabins became inaccessible. Oil field producers stopped most production where pumping units were not on substructures. A county road along the river north of Mount Carmel flooded. Some cropland was flooded. The flooding continued into early July.

$\textbf{WHITE COUNTY --- MAUNIE [38.03, -88.05], 0.9 E MAUNIE [38.03, -88.03], 2.2 E MAUNIE [38.03, -88.01], 1.2 NNE RISING SUN [38.02, -88.03] \\$

 06/30/13 15:00 CST
 0
 Flood (due to Heavy Rain)

 06/30/13 23:59 CST
 20K
 Source: River/Stream Gage

Minor flooding occurred along the Wabash River. Some cropland was flooded, along with a few county roads. The flooding continued into early July.

A very heavy rainfall event occurred in late June in portions of the Wabash Valley, including west central Indiana. In a 24-hour period from the evening of the 25th through the evening of the 26th, torrential rains of 3 to nearly 8 inches fell in upper portions of the Wabash basin. Severe flash flooding followed in portions of those areas. Flash flooding during the 26th quickly transitioned into lowland river flooding along portions of the Lower Wabash River.

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Source: Broadcast Media

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------------------|-------------------|------------------------|------------------------------|
| | | • | , , | |
| FRANKLIN COUNTY CHRISTOPHER [37.97, -8 | 9.05] | | | |
| | 06/29/13 16:17 CST | | 15K | Thunderstorm Wind (EG 52 kt) |
| | 06/29/13 16:17 CST | | 0 | Source: Trained Spotter |
| Several large tree limbs were blown down, and one | e tree was uprooted along High | nway 148 through | town. A few shing | les were blown off houses. |
| WHITE COUNTY CROSSVILLE [38.17, -88.07] | | | | _ |
| | 06/29/13 16:26 CST | | 0 | Hail (0.88 in) |
| | 06/29/13 16:30 CST | | 0 | Source: Trained Spotter |
| JACKSON COUNTY DE SOTO [37.82, -89.23] | | | | |
| | 06/29/13 16:29 CST | | 1K | Thunderstorm Wind (EG 52 kt) |
| | 06/29/13 16:29 CST | | 0 | Source: Trained Spotter |
| A trained spotter estimated a wind gust to 60 mph. | The top of a tree was snapped | d off. | | |

Scattered thunderstorms developed in the vicinity of an unseasonably strong low in the upper levels of the atmosphere. This upper-level low was centered over Illinois and Indiana. A couple of the storms became severe as daytime heating destabilized the atmosphere. A secondary cold front that extended westward from a low pressure center over southern Ohio provided additional support for the storms.

| GIBSON COUNTY FRANCISCO [38. | 23 | | |
|--|--|--|---|
| SIBSON COUNTY FRANCISCO [36. | 06/24/13 00:00 CST | 0 | Heavy Rain |
| | 06/24/13 12:00 CST | 0 | Source: Trained Spotter |
| | | | · |
| spotter measured 2.05 inches of rain i | n the morning and early afternoon. Flood-prone | e low-lying areas were in | undated, including secondary roads. |
| POSEY COUNTY POSEYVILLE [38.1 | 7, -87.78] | | |
| | 06/24/13 00:00 CST | 0 | Heavy Rain |
| | 06/24/13 08:00 CST | 0 | Source: Trained Spotter |
| The early morning rainfall total was 2.62 | inches. | | |
| VANDERBURGH COUNTY 3.9 S SM | YTHE [37.94, -87.47] | | |
| | 06/24/13 00:00 CST | 0 | Heavy Rain |
| | | | |
| | 06/24/13 13:28 CST | 0 | Source: Trained Spotter |
| A storm-total rainfall of 5.30 inches was | 06/24/13 13:28 CST measured at Angel Mounds, just southeast of t | | Source: Trained Spotter |
| | measured at Angel Mounds, just southeast of I | | Source: Trained Spotter |
| | measured at Angel Mounds, just southeast of I | | Source: Trained Spotter Heavy Rain |
| | measured at Angel Mounds, just southeast of t | Evansville. | |
| WARRICK COUNTY 2.6 SW BOONV | measured at Angel Mounds, just southeast of B ILLE [38.02, -87.30] 06/24/13 00:00 CST 06/24/13 13:02 CST | Evansville. | Heavy Rain |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a store | measured at Angel Mounds, just southeast of the southeast | Evansville. | Heavy Rain |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a store | measured at Angel Mounds, just southeast of the southeast | Evansville. | Heavy Rain |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a store | measured at Angel Mounds, just southeast of the southeast | Evansville. 0 0 | Heavy Rain Source: COOP Observer |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a storr VANDERBURGH COUNTY 1.5 S BEI | measured at Angel Mounds, just southeast of BILLE [38.02, -87.30] 06/24/13 00:00 CST 06/24/13 13:02 CST n-total rainfall of 5.03 inches. LKNAP [37.96, -87.68] 06/24/13 08:10 CST | Evansville. 0 0 0 | Heavy Rain Source: COOP Observer Hail (0.88 in) |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a storr VANDERBURGH COUNTY 1.5 S BEI Nickel-size hail was reported at the Univ | measured at Angel Mounds, just southeast of B ILLE [38.02, -87.30] 06/24/13 00:00 CST 06/24/13 13:02 CST m-total rainfall of 5.03 inches. LKNAP [37.96, -87.68] 06/24/13 08:10 CST 06/24/13 08:10 CST ersity of Southern Indiana campus a couple mi | Evansville. 0 0 0 0 les west of Evansville. | Heavy Rain Source: COOP Observer Hail (0.88 in) Source: Public |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a storr VANDERBURGH COUNTY 1.5 S BEI Nickel-size hail was reported at the Univ | measured at Angel Mounds, just southeast of B ILLE [38.02, -87.30] 06/24/13 00:00 CST 06/24/13 13:02 CST m-total rainfall of 5.03 inches. LKNAP [37.96, -87.68] 06/24/13 08:10 CST 06/24/13 08:10 CST | Evansville. 0 0 0 0 les west of Evansville. | Heavy Rain Source: COOP Observer Hail (0.88 in) Source: Public |
| WARRICK COUNTY 2.6 SW BOONV A co-operative observer reported a store VANDERBURGH COUNTY 1.5 S BEI Nickel-size hail was reported at the Univ | measured at Angel Mounds, just southeast of B ILLE [38.02, -87.30] 06/24/13 00:00 CST 06/24/13 13:02 CST m-total rainfall of 5.03 inches. LKNAP [37.96, -87.68] 06/24/13 08:10 CST 06/24/13 08:10 CST ersity of Southern Indiana campus a couple mi | Evansville. 0 0 0 0 les west of Evansville. | Heavy Rain Source: COOP Observer Hail (0.88 in) Source: Public |

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Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dmg Widespread street flooding occurred. Numerous water rescues were reported in Evansville, primarily in east and northeast sections of the city. Vehicles were stuck in floodwaters. Three persons were rescued from one vehicle. A heavily used viaduct was inundated and impassable in the central part of the city. An exit ramp off the Lloyd Expressway to Green River Road was flooded. Other roadways in the area were flooded. Ditches were overflowing and parking lots were flooded. At the Evansville airport, 2.38 inches of rain fell in one hour. The daily total was 4.10 inches. WARRICK COUNTY --- NEWBURGH [37.95, -87.42], 1.0 WSW NEWBURGH [37.94, -87.44], 1.6 NNW NEWBURGH [37.97, -87.44], 1.5 N NEWBURGH [37.97, -87.42] 06/24/13 10:17 CST 0 Flash Flood (due to Heavy Rain) 06/24/13 13:00 CST 0 Source: Trained Spotter Widespread street flooding was reported in Newburgh, including many subdivision roads. Ditches were overflowing. A spotter measured 2.02 inches in six hours, and 4.84 inches for the day. Storms developed in a deep south to southwest wind flow of warm and moist air on the back side of high pressure over the Southeast U.S. coast. PIKE COUNTY --- PETERSBURG [38.50, -87.28] 06/26/13 18:03 EST 0 Funnel Cloud 06/26/13 18:03 EST 0 Source: Trained Spotter There were several sightings of a rotating funnel cloud over Petersburg, including some from trained spotters. The parent supercell and its rotating wall cloud continued east across northeast Pike County. PIKE COUNTY --- OTWELL [38.45, -87.10], 0.6 ENE OTWELL [38.45, -87.09] 06/26/13 18:16 EST 20K Tornado (EF1, L: 0.59 mi, W: 75 yd) 06/26/13 18:17 EST n Source: Broadcast Media A wooden equipment storage shed was destroyed. The shed was approximately 40 by 80 feet in size. Peak wind speeds were estimated near 100 mph. Trained spotters reported a funnel cloud of varying intensity, which would occasionally seem to dissipate and then re-form. GIBSON COUNTY --- 1.0 SW FRANCISCO [38.32, -87.46] 06/26/13 18:45 CST 0 Heavy Rain 06/26/13 19:45 CST n Source: Trained Spotter A trained spotter measured 1.57 inches of rain in one hour. GIBSON COUNTY --- 3.0 S PRINCETON [38.31, -87.57] 06/26/13 18:48 CST 0.10M Thunderstorm Wind (EG 56 kt) 06/26/13 18:48 CST 0 Source: Trained Spotter Lots of trees were blown down. Large limbs were snapped off. Some of the trees and tree limbs produced damage to houses. The damage occurred on the west side of U.S. Highway 41 just north of County Road 350S. SPENCER COUNTY --- 1.0 W SANTA CLAUS [38.12, -86.92] 06/26/13 19:25 CST 0 Thunderstorm Wind (EG 52 kt) 06/26/13 19:25 CST 0 Source: Public A wind gust was estimated near 60 mph by the public. SPENCER COUNTY --- GRANDVIEW [37.93, -86.98], ROCKPORT [37.88, -87.05] 06/26/13 19:38 CST 20K Thunderstorm Wind (MG 54 kt) 06/26/13 19:45 CST 0 Source: Public A wind gust to 62 mph was measured in Rockport. Trees and power lines were blown down in Grandview and Rockport. A persistent cluster of thunderstorms intensified as it moved into a moist and very unstable air mass over southwest Indiana. The storms were supported by mid-level forcing associated with a weak disturbance, along with a low-level inflow of warmer air from the southwest. Modest westerly wind flow through the depth of the atmosphere increased the risk of potentially damaging winds and

PIKE COUNTY --- PETERSBURG [38.50, -87.28], 3.3 NE PETERSBURG [38.53, -87.23], 2.8 NNE PETERSBURG [38.53, -87.25], 0.8 N PETERSBURG [38.51, -87.28]

isolated supercells.

 06/27/13 13:00 EST
 3K
 Flood (due to Heavy Rain)

 06/30/13 23:59 EST
 20K
 Source: River/Stream Gage

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Date/Time **Event Type and Details** Location Deaths & Property & Injuries Crop Dmg

Minor flooding occurred along the White River in the Petersburg area. Several Pike County roads were flooded, including the following county roads east of State Route 57: 750N, 600N, and 1000E. Pike County roads flooded west of SR 57 included: 250 W, 400W, 675N, 700N, 1000W, 900W, 700W, and 775W. Flooding affected low agricultural lands and low oil fields. The flooding continued into early July.

GIBSON COUNTY --- 1.8 W HAZLETON [38.48, -87.56], 1.9 WNW HAZLETON [38.49, -87.56], 1.3 WNW HAZLETON [38.49, -87.55], 1.2 WNW HAZLETON [38.49, -87.55]

06/28/13 03:00 CST 1K Flood (due to Heavy Rain) 06/30/13 23:59 CST 12K Source: River/Stream Gage

Minor flooding occurred along the White River in the Hazleton area. Floodwaters covered low farmland. Low-lying oil fields and a few low rural roads were flooded. High water isolated a river cabin community. The flooding continued into early July.

GIBSON COUNTY --- 1.2 NNW EAST MT CARMEL [38.42, -87.74], 1.3 W EAST MT CARMEL [38.40, -87.75], 0.9 WSW EAST MT CARMEL [38.39, -87.75], 0.9 NNW EAST MT CARMEL [38.41, -87.73]

06/29/13 01:00 CST 5K Flood (due to Heavy Rain) 06/30/13 23:59 CST 40K Source: River/Stream Gage

Minor flooding occurred along the Wabash River in the East Mount Carmel area. Many river cabins became inaccessible. Oil field producers stopped most production where pumping units were not on substructures. A few river access roads along the river were flooded. Some cropland was flooded. The flooding continued into early July.

POSEY COUNTY --- NEW HARMONY [38.13, -87.93], 0.6 WNW NEW HARMONY [38.13, -87.94], 1.0 NNE NEW HARMONY [38.14, -87.92], 1.7 N NEW HARMONY [38.16, -87.93], 1.6 NNE NEW HARMONY [38.15, -87.92]

> 06/30/13 15:00 CST 5K Flood (due to Heavy Rain) 06/30/13 23:59 CST 40K Source: River/Stream Gage

Minor flooding occurred along the Wabash River in and near New Harmony. A few river access roads along the river were flooded. Some cropland was flooded. The flooding continued into early July.

The largest rainfall event in Indiana during June occurred in west central and south central Indiana. In a 24-hour period from the evening of the 25th through the evening of the 26th, torrential rains of 3 to nearly 8 inches fell. Severe flash flooding followed in portions of those areas. Flash flooding during the 26th quickly transitioned into lowland river flooding along portions of the Lower White and Wabash Rivers. River flooding continued into early July along portions of the lowest reaches of the White and Wabash Rivers in southwest Indiana.

WARRICK COUNTY --- BOONVILLE [38.05, -87.27]

06/30/13 13:45 CST 0 Heavy Rain 06/30/13 15:00 CST 0 Source: Unknown

Water was reported over a couple of intersections.

Thunderstorms with very heavy rain occurred beneath an unseasonably strong upper-level low as it meandered across the Lower Ohio Valley.

KENTUCKY, Southwest

WEBSTER COUNTY --- POOLE [37.63, -87.65], DIXON [37.52, -87.70] 06/01/13 02:05 CST 10K Thunderstorm Wind (EG 52 kt)

06/01/13 02:05 CST 0 Source: Emergency Manager

Trees and power lines were down in the Dixon and Poole areas. Highway 41A was down to one lane 1.5 miles south of Poole due to a power line down.

WEBSTER COUNTY --- ONTON [37.55, -87.43]

06/01/13 02:15 CST 40K Thunderstorm Wind (EG 61 kt) 06/01/13 02:15 CST 0 Source: Emergency Manager

A roof was blown off a home, and there was other damage to the structure. Several trees and power lines were blown down in the same area.

MCCRACKEN COUNTY --- LONE OAK [37.03, -88.67], REIDLAND [37.02, -88.53], PADUCAH [37.08, -88.63], BARKLEY ARPT [37.07, -88.77], CAMMELIA [37.02, -88.78]

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--|--|---|---|
| | 06/01/13 03:39 CST | | 1.50M | Flash Flood (due to Heavy Rain) |
| | 06/01/13 07:40 CST | | 0 | Source: Emergency Manager |
| A major flash flood produced millions of doin the usual problem spots in the city of Paincreased to include low-lying sections of rifloodwaters, becoming completely submer water rescue team rescued about 30 peop businesses. An apartment complex in Pad residents of the apartment complex were of flooded, and restaurants were inaccessible surrounded by water, stranding the occupation of the parking lots on the inches was measured in just three hours a | aducah. The railroad underpass at U. numerous roads throughout the coun reged and requiring assistance from reple from flooded cars and buildings. Clucah was flooded by up to several fe evacuated. Perkins Creek flooded the e. Seventy units of one hotel were da ants. Street and road flooding becamne south side of Paducah. Several co | S. Highways 62 arty, some of which escue boats. Nume creeks and streams et from Crooked Ce business strip ne amaged. Water rese widespread acrounty roads were w | nd 45 in Paducah v were impassable. It wrous other vehicles is rose far outside of creek, along with ro ar the Interstate 24 cue teams evacua iss the county, mal ashed out or heav | vas closed. The flooding steadily At least three vehicles drove into s stalled out in floodwaters. The swift of their banks, inundating homes and bads and parking lots. Twenty to thirty 4 exit to U.S. 60. A couple of hotels were ted three residences that were king travel very difficult or impossible. |
| TRIGG COUNTY ROCKCASTLE [36.90 |), -87.97] | | | |
| · | 06/01/13 04:00 CST | | 0 | Heavy Rain |
| | 06/01/13 08:54 CST | | 0 | Source: Trained Spotter |
| A total of 3.70 inches of rainfall was measi markers. This is near the entrance to Lake | | was over various | highways, includin | g U.S. 68 between the 11 and 12 mile |
| LIVINGSTON COUNTY GRAND RIVER | S [37.00, -88.23], CARRSVILLE [37.4 06/01/13 05:00 CST | 40, -88.38] | 0 | Heavy Rain |
| | 06/01/13 11:00 CST | | 0 | Source: Department of Highways |
| | | y 937 between the | 1 and 2 mile mark | kers, Kentucky 1433 between the 4 and |
| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE | en the 5 and 6 mile markers. | | | · |
| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE | en the 5 and 6 mile markers. | | | · |
| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE | en the 5 and 6 mile markers. | | [37.05, -89.05], LA | CENTER [37.07, -88.98], KEVIL |
| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE [37.08, -88.90] In La Center, flash flooding damaged three to a depth of approximately 5 to 8 inches. It is a depth of approximately 5 to 8 inches. It is a due to at least one-half foot of flowing water MARSHALL COUNTY CALVERT CITY | en the 5 and 6 mile markers. [36.97, -88.82], WICKLIFFE [36.97, -06/01/13 05:10 CST 06/01/13 07:40 CST businesses along U.S. Highway 60. Water in parts of a parking lot was over the compact of the c | -89.08], BARLOW . A storage building ver four feet deep. I.S. Highway 62 ne | [37.05, -89.05], LA 0.10M 0 g, propane compar Water at one point ear Lovelaceville. H | Flash Flood (due to Heavy Rain) Source: Trained Spotter ny, and insurance company were flooded at flooded over the top of a 500-gallon dighway 2532 near Kevil was closed |
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| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE [37.08, -88.90] In La Center, flash flooding damaged three to a depth of approximately 5 to 8 inches. It is tank. Several vehicles were stranded in at in at it is due to at least one-half foot of flowing wate MARSHALL COUNTY CALVERT CITY CITY [37.02, -88.36] | en the 5 and 6 mile markers. [36.97, -88.82], WICKLIFFE [36.97, -06/01/13 05:10 CST 06/01/13 07:40 CST be businesses along U.S. Highway 60. Water in parts of a parking lot was over across it. [37.03, -88.35], GILBERTSVILLE [37 06/01/13 05:18 CST 06/01/13 07:20 CST | -89.08], BARLOW . A storage building ver four feet deep. l.S. Highway 62 new 1.02, -88.28], 1.0 S | [37.05, -89.05], LA 0.10M 0 g, propane compan Water at one point ear Lovelaceville. H SW GILBERTSVIL 0 0 | Flash Flood (due to Heavy Rain) Source: Trained Spotter ny, and insurance company were flooded at flooded over the top of a 500-gallon lighway 2532 near Kevil was closed LE [37.01, -88.29], 0.8 SW CALVERT Flash Flood (due to Heavy Rain) |
| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE [37.08, -88.90] In La Center, flash flooding damaged three to a depth of approximately 5 to 8 inches. It tank. Several vehicles were stranded in at due to at least one-half foot of flowing wate MARSHALL COUNTY CALVERT CITY CITY [37.02, -88.36] | en the 5 and 6 mile markers. [36.97, -88.82], WICKLIFFE [36.97, 06/01/13 05:10 CST 06/01/13 07:40 CST e businesses along U.S. Highway 60. Water in parts of a parking lot was over across it. [37.03, -88.35], GILBERTSVILLE [37 06/01/13 05:18 CST 06/01/13 07:20 CST econdary road in Gilbertsville. Another | -89.08], BARLOW A storage building ver four feet deep. J.S. Highway 62 new 7.02, -88.28], 1.0 Ser secondary road ver | [37.05, -89.05], LA 0.10M 0 g, propane compan Water at one point ear Lovelaceville. H SW GILBERTSVIL 0 0 | Flash Flood (due to Heavy Rain) Source: Trained Spotter ny, and insurance company were flooded at flooded over the top of a 500-gallon dighway 2532 near Kevil was closed LE [37.01, -88.29], 0.8 SW CALVERT Flash Flood (due to Heavy Rain) Source: Trained Spotter |
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| 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE [37.08, -88.90] In La Center, flash flooding damaged three to a depth of approximately 5 to 8 inches. It tank. Several vehicles were stranded in at due to at least one-half foot of flowing wate MARSHALL COUNTY CALVERT CITY CITY [37.02, -88.36] Floodwater was up to 2.5 feet high on a second country HAZEL [36.50, CALLOWAY COUNTY HAZEL [36.50, South of Murray, water was running across | en the 5 and 6 mile markers. [36.97, -88.82], WICKLIFFE [36.97, 06/01/13 05:10 CST 06/01/13 07:40 CST be businesses along U.S. Highway 60. Water in parts of a parking lot was over across it. [37.03, -88.35], GILBERTSVILLE [37 06/01/13 05:18 CST 06/01/13 07:20 CST 06/01/13 07:20 CST becondary road in Gilbertsville. Another of the control of the | -89.08], BARLOW A storage building ver four feet deep. I.S. Highway 62 new condary road was secondary road | [37.05, -89.05], LA 0.10M 0 g, propane compan Water at one point ear Lovelaceville. H SW GILBERTSVIL 0 0 was also flooded. 0 0 hicle was in the dit | Flash Flood (due to Heavy Rain) Source: Trained Spotter ny, and insurance company were flooded if flooded over the top of a 500-gallon flighway 2532 near Kevil was closed LE [37.01, -88.29], 0.8 SW CALVERT Flash Flood (due to Heavy Rain) Source: Trained Spotter Heavy Rain Source: Trained Spotter |
| Water was over the following highways in 5 mile markers, and Kentucky 723 betwee BALLARD COUNTY LOVELACEVILLE [37.08, -88.90] In La Center, flash flooding damaged three to a depth of approximately 5 to 8 inches. It tank. Several vehicles were stranded in at due to at least one-half foot of flowing water was up to 2.5 feet high on a second calculation of Murray, water was running across intersection of Kentucky Highways 94 and CARLISLE COUNTY ARLINGTON [36.50] | en the 5 and 6 mile markers. [36.97, -88.82], WICKLIFFE [36.97, 06/01/13 05:10 CST 06/01/13 07:40 CST be businesses along U.S. Highway 60. Water in parts of a parking lot was over a cross it. [37.03, -88.35], GILBERTSVILLE [37 06/01/13 05:18 CST 06/01/13 07:20 CST becondary road in Gilbertsville. Another conditions of the condition of the | -89.08], BARLOW A storage building ver four feet deep. S. Highway 62 new control of the contro | [37.05, -89.05], LA 0.10M 0 g, propane compan Water at one point ear Lovelaceville. H SW GILBERTSVIL 0 0 was also flooded. 0 0 hicle was in the dit ounty. | Flash Flood (due to Heavy Rain) Source: Trained Spotter ny, and insurance company were flooded if flooded over the top of a 500-gallon dighway 2532 near Kevil was closed LE [37.01, -88.29], 0.8 SW CALVERT Flash Flood (due to Heavy Rain) Source: Trained Spotter Heavy Rain Source: Trained Spotter ch. Flooding occurred at the |

HICKMAN COUNTY --- 1.7 WNW CLINTON [36.68, -89.01], 2.0 WSW CLINTON [36.65, -89.01], 0.3 NNE FULHAM [36.65, -88.87], 1.3 N FULHAM [36.67, -88.87]

reports of over six inches of rain in farmers' rain gages in Carlisle County. Carlisle County highway crews reported water over roadways in so many

places that they were having difficulty getting signs up. U.S. Highway 62 was among the roads covered by water.

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| Location | Date/Time | Deaths & | Property & | Event Type and Details |
|----------|--------------------|----------|------------|--------------------------------|
| | | Injuries | Crop Dmg | |
| | 06/01/13 08:30 CST | | 0 | Flood (due to Heavy Rain) |
| | 06/01/13 12:00 CST | | 0 | Source: Department of Highways |

Kentucky Highway 58 was closed by floodwaters at the 10 mile marker near Clinton. Kentucky 1820 was closed by floodwaters at the Graves-Hickman County line.

CHRISTIAN COUNTY --- 2.3 WNW GRACEY [36.89, -87.69], 1.9 W GRACEY [36.87, -87.68], 1.4 ESE GRACEY [36.86, -87.63], 0.8 NE GRACEY [36.88, -87.64]

06/01/13 09:00 CST 0 Flood (due to Heavy Rain)

06/01/13 12:00 CST 0 Source: Unknown

Some street flooding and flooding of fields was reported in Gracey.

A mesoscale convective system that originated over the Missouri Ozarks maintained strength as it moved through the middle Mississippi Valley during the overnight hours. The system slowed down and then stalled as it crossed the Lower Ohio Valley very early in the morning. The stalled thunderstorm complex produced major flash flooding across parts of western Kentucky.



Extensive flash flooding of Perkins Creek inundated this hotel along the U.S. Highway 60 business strip near Interstate 24. Several restaurants and hotels in the vicinity of exit 4 off Interstate 24 were impacted by the flooding. Photo courtesy of McCracken County Emergency Management.

MUHLENBERG COUNTY --- 1.9 WNW EBENEZER [37.21, -87.11], BEECHMONT [37.18, -87.03], BELTON [37.15, -87.03], 3.6 SSE GREENVILLE [37.16, -87.15], 0.7 E LUZERNE [37.22, -87.21]

 06/06/13 00:30 CST
 0.20M
 Flash Flood (due to Heavy Rain)

 06/06/13 06:00 CST
 0
 Source: Law Enforcement

Rapidly rising floodwaters inundated some buildings in Greenville, including a rest home. The rest home was sandbagged after a couple inches of water entered the facility. Some roads in Greenville were flooded. At least one house was isolated by floodwaters in the Belton area, prompting an evacuation. Numerous roads were flooded and impassable in the Beechmont and Belton areas along U.S. Highway 431. Impassable roads included portions of U.S. Highway 431, as well as State Routes 70, 2270, and 1163. At least one vehicle was stranded. About ten homes were flooded. Luzerne Lake flooded portions of Kentucky Highways 601 and 189. Floodwaters threatened a power substation.

A surface low pressure center moved northeast along the Ohio River. Thunderstorms in the warm sector of this low produced isolated flash flooding in western Kentucky. The storms were aided by an upper-level low over the Great Lakes region with a shortwave trough extending south along the Mississippi Valley.

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--|-------------------------------------|---|--|
| CHRISTIAN COUNTY HOPKINSVILLE [| [36.85, -87.48] | | | |
| | 06/16/13 17:50 CST | | 0 | Lightning |
| | 06/16/13 17:50 CST | 1 | 0 | Source: Trained Spotter |
| A man received non life-threatening injuries nospital. | s when he was struck by lightning on a | golf course. Or | ne of his socks was | burned. He was transported to a local |
| A thunderstorm with intense lightning pa Missouri and Illinois. | assed across the Hopkinsville area. The | he storm occur | red ahead of a col | d front that was crossing |
| ULTON COUNTY FULTON [36.52, -88. | .87] | | | |
| | 06/17/13 12:00 CST | | 0 | Heavy Rain |
| | 06/17/13 12:45 CST | | 0 | Source: Trained Spotter |
| Vater was reported over some roads. | | | | |
| ARLISLE COUNTY BARDWELL [36.8] | | | | |
| | 06/17/13 12:49 CST | | 0 | Hail (0.75 in) |
| | 06/17/13 12:49 CST | | 0 | Source: Public |
| ICCRACKEN COUNTY PADUCAH [37. | .08, -88.63], REIDLAND [37.0288.53] | <u> </u> | | |
| | 06/17/13 13:30 CST | • | 0 | Heavy Rain |
| | | | • | Source: Public |
| ide of Paducah. The water was generally in near the Hendron are | less than a foot deep. A flood-prone serea were covered by around three inches | econdary road a es of water. The | long Champion Cre flood-prone inters | king lots in shopping areas on the south eek in the Hendron area was |
| ide of Paducah. The water was generally in mpassable. Other roads in the Hendron arwas impassable. There was an unofficial re | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone serea were covered by around three inches port from a Paducah television station GORO [37.79, -87.17] | econdary road a es of water. The | sive flooding of park long Champion Cre flood-prone inters about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 |
| ide of Paducah. The water was generally in mpassable. Other roads in the Hendron arwas impassable. There was an unofficial re | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches eport from a Paducah television station BORO [37.79, -87.17] 06/17/13 14:05 CST | econdary road a es of water. The | sive flooding of part long Champion Cre flood-prone inters about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) |
| ide of Paducah. The water was generally inpassable. Other roads in the Hendron are as impassable. There was an unofficial repayment of the country 3.0 WNW OWENSB | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone serea were covered by around three inches port from a Paducah television station GORO [37.79, -87.17] | econdary road a es of water. The | sive flooding of park long Champion Cre flood-prone inters about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 |
| ide of Paducah. The water was generally impassable. Other roads in the Hendron and was impassable. There was an unofficial report of the partial of the part | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station 30RO [37.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST | econdary road a es of water. The | osive flooding of part long Champion Cre of flood-prone inters of about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public |
| ide of Paducah. The water was generally impassable. Other roads in the Hendron and was impassable. There was an unofficial report of the partial of the part | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station of 17.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST | econdary road a es of water. The | osive flooding of part long Champion Cre of flood-prone inters a about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public Hail (0.88 in) |
| de of Paducah. The water was generally in passable. Other roads in the Hendron are as impassable. There was an unofficial reaction of the passable and the pass | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station 30RO [37.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST | econdary road a es of water. The | osive flooding of part long Champion Cre of flood-prone inters of about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public |
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| ide of Paducah. The water was generally impassable. Other roads in the Hendron are was impassable. There was an unofficial resolved impassable. There was an | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station of 17.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST 06/17/13 14:20 CST 06/17/13 14:37 CST 06/17/13 14:37 CST 06/17/13 15:20 CST | econdary road a es of water. The | osive flooding of park long Champion Cre of flood-prone intersal about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public Hail (0.88 in) Source: Trained Spotter Hail (0.88 in) Source: Broadcast Media |
| ide of Paducah. The water was generally impassable. Other roads in the Hendron are was impassable. There was an unofficial resolvation of the Paducah. There was an unofficial resolvation of the Paducah Padu | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station 60RO [37.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST VENSBORO ARPT [37.78, -87.19] 06/17/13 14:20 CST 06/17/13 14:37 CST 06/17/13 14:37 CST 06/17/13 15:20 CST 06/17/13 17:00 CST | econdary road a es of water. The | osive flooding of park long Champion Cre of flood-prone intersal about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public Hail (0.88 in) Source: Trained Spotter Hail (0.88 in) Source: Broadcast Media |
| DAVIESS COUNTY OWENSBORO [37.7] DAVIESS COUNTY OWENSBORO [37.7] DAVIESS COUNTY OWENSBORO [37.7] | 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station 60RO [37.79, -87.17] 06/17/13 14:05 CST 06/17/13 14:05 CST VENSBORO ARPT [37.78, -87.19] 06/17/13 14:20 CST 06/17/13 14:37 CST 06/17/13 14:37 CST 06/17/13 15:20 CST 06/17/13 17:00 CST | econdary road a es of water. The | osive flooding of park long Champion Cre of flood-prone intersal about an hour. | king lots in shopping areas on the south eek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public Hail (0.88 in) Source: Trained Spotter Hail (0.88 in) Source: Broadcast Media |
| Water was over the road on U.S. Highway side of Paducah. The water was generally impassable. Other roads in the Hendron are was impassable. There was an unofficial report of the partially covering the ground. DAVIESS COUNTY 2.5 NNW (OWB)OWDAVIESS COUNTY OWENSBORO [37.7] DAVIESS COUNTY OWENSBORO [37.7] Water was reported up to three inches dee HENDERSON COUNTY HENDERSON [| 62 between Paducah and Reidland. The less than a foot deep. A flood-prone series were covered by around three inches port from a Paducah television station (1977) 14:05 CST (1977) 14:05 CST (1977) 14:05 CST (1977) 14:05 CST (1977) 14:20 CST (1977) 14:20 CST (1977) 14:37 CST (1977) 14:37 CST (1977) 15:20 CST (19 | econdary road a es of water. The | osive flooding of parl long Champion Cre of flood-prone interso about an hour. | king lots in shopping areas on the south seek in the Hendron area was ection at U.S. 62 and Highway 286 Hail (0.75 in) Source: Public Hail (0.88 in) Source: Trained Spotter Hail (0.88 in) Source: Broadcast Media Heavy Rain Source: Trained Spotter |

Water was up to five inches deep on several roads.

Thunderstorms developed and remained quasi-stationary in association with a surface low pressure center over the Mississippi River between St. Louis, Missouri and Cairo, Illinois. The storms were the result of the combination of the surface low, daytime heating, and a very moist atmosphere with precipitable water values approaching two inches. The storms were further enhanced by a 500 mb shortwave trough over southwest Missouri.

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|---|--|--|---|
| HOPKINS COUNTY 2.2 NE CARBOND | | [37.31, -87.55], 1.1 | ESE WICKS WEL | L [37.36, -87.53], 2.3 N EAST DIAMOND |
| [37.36, -87.45], 2.7 E OAK HILL [37.23, -8 | 7 .42] 06/24/13 10:00 CST | | 0.50M | Flash Flood (due to Heavy Rain) |
| | 06/24/13 13:00 CST | | 0.50W | Source: Trained Spotter |
| The Madisonville city fire department evacuous businesses and vehicles in the mall area, five homes were flooded in a residential a evacuating affected residents, and a water to deeper water. Highway 70 was flooded Highway 70. Four to six inches of running six inches of water was over one lane of Uramps at exit 37 were flooded near Morton 281 were flooded on the east side of Madwater rescue was conducted in a mobile forms developed in a deep south to so | which is on the east side of the city as rea along a flooded ditch on the souther rescue was in progress. Boats were and closed from downtown Madison water covered Highway 70 on the souther. Since the covered Highway 70 on the souther souther approached I have Gap. In Madisonville, a section of the isonville, including a subdivision. Boat mome park. The Kentucky mesonet site | along Interstate 69, heast side of town a requested to get wille to the mall enouthwest side of M. houses on Highwa U.S. Highway 41 vats were dispatched te four miles south | Water was over the Police officers we to stranded motoristrance on the east adisonville. The roay 813 in Mortons Gwas closed. Areas the dot oget stranded prof Madisonville me | ne hood of at least one vehicle. At least ent door-to-door contacting and sts. The strong currents carried a car side of town. Cars were stranded on ad was not passable. In Mortons Gap, Gap. The Interstate 69 on-and-off between Kentucky Highways 254 and eeople out of vehicles and houses. A easured 5.92 inches of rain. |
| U.S. coast. | | | | |
| | | | | |
| HENDERSON COUNTY SPOTTSVILLE | | 40] | 0 | Funnel Cloud |
| HENDERSON COUNTY SPOTTSVILLE Trained spotters reported a funnel cloud r | 06/26/13 20:35 CST 06/26/13 20:35 CST | 40] | 0 | Funnel Cloud Source: Trained Spotter |
| | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. | 40] | | |
| Trained spotters reported a funnel cloud r | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. E [36.90, -87.99] 06/26/13 20:45 CST | 40] | 0 10K | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) |
| Trained spotters reported a funnel cloud r | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. E [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST | 40] | 0 10K | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) |
| Trained spotters reported a funnel cloud r TRIGG COUNTY 1.0 W ROCKCASTLE Trees were blown down. | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. E [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST | 40] | 0 10K | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) Source: Trained Spotter Hail (0.75 in) |
| Trained spotters reported a funnel cloud r TRIGG COUNTY 1.0 W ROCKCASTLE Trees were blown down. | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. E [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST | 40] | 10K 0 | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) Source: Trained Spotter |
| Trained spotters reported a funnel cloud r TRIGG COUNTY 1.0 W ROCKCASTLE Trees were blown down. | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. E [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST ITTSTOWN [36.88, -87.58] 06/26/13 21:02 CST 06/26/13 21:02 CST | 40] | 10K 0 | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) Source: Trained Spotter Hail (0.75 in) |
| Trained spotters reported a funnel cloud r TRIGG COUNTY 1.0 W ROCKCASTLE Trees were blown down. CHRISTIAN COUNTY 2.1 NNW MERR | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST [36.90] 06/26/13 20:45 CST 06/26/13 20:45 CST 06/26/13 21:02 CST 06/26/13 21:02 CST 06/26/13 21:02 CST way 68 west of Hopkinsville. [36.88, -87.58] 06/26/13 21:02 CST 06/26/13 21:02 CST way 68 west of Hopkinsville. [37.88] 06/26/13 21:02 CST way 68 west of Hopkinsville. [38.89] 06/26/13 21:02 CST way 68 west of Hopkinsville. | nd very unstable m that covered so system was suppo | 10K 0 0 0 air mass over sou buthern Illinois, we | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) Source: Trained Spotter Hail (0.75 in) Source: Trained Spotter thwest Indiana. The estern Kentucky, and the forcing associated with |
| Trained spotters reported a funnel cloud r TRIGG COUNTY 1.0 W ROCKCASTLE Trees were blown down. CHRISTIAN COUNTY 2.1 NNW MERRI Dime-size hail was reported on U.S. High A persistent cluster of thunderstorms in cluster of storms slowly expanded into a Mississippi River counties of extreme so a weak disturbance, along with a low-leve | 06/26/13 20:35 CST 06/26/13 20:35 CST near Spottsville and Beals. [36.90, -87.99] 06/26/13 20:45 CST 06/26/13 20:45 CST 06/26/13 20:45 CST 06/26/13 21:02 CST 06/26/13 21:02 CST 06/26/13 21:02 CST way 68 west of Hopkinsville. Intensified as it moved into a moist a large mesoscale convective system outheast Missouri. The convective system outheast Missouri. The convective system over western Kentucky. | nd very unstable m that covered so system was suppo uthwest. The thur | 10K 0 0 0 air mass over sou buthern Illinois, we | Source: Trained Spotter Thunderstorm Wind (EG 52 kt) Source: Trained Spotter Hail (0.75 in) Source: Trained Spotter thwest Indiana. The estern Kentucky, and the forcing associated with |

Thunderstorms with very heavy rain occurred beneath an unseasonably strong upper-level low as it meandered across the Lower Ohio Valley.

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 3.3 E (CGI)CAPE GIRARDEAU [37.23, -89.51], 0.5 NW GULF JCT [37.27, -89.56], 1.2 SSE CAPE GIRARDEAU [37.28, -89.52], 3.6 ESE GULF JCT [37.25, -89.49]

06/01/13 00:00 CST 0.10M Flood (due to Heavy Rain) 06/25/13 21:00 CST 0.10M Source: River/Stream Gage

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| Location | Date/Time | Deaths & | Property & | Event Type and Details |
|----------|-----------|-----------|------------|------------------------|
| | | Industria | Cron Dma | |

Major flooding occurred on the Mississippi River in the Cape Girardeau area. There was extensive flooding of low-lying agricultural land, riverside parks, and river access roads. Floodwaters backed up creeks and diversion channels across southern parts of Cape Girardeau County, threatening areas along Highway 74 out to Dutchtown. Crews built an emergency levee along Highway 74 near Highway 25 to protect Dutchtown. Highways 74 and 25 were closed. Many homes in Cape Girardeau County were affected, and evacuations were required. Most of the affected houses were in rural areas of Cape Girardeau County along tributary creeks that were swollen by Mississippi River backwater. The city of Cape Girardeau is protected by floodwalls and levees. Over 100,000 acres of farmland were flooded. Numerous roads were closed. Many farmers had not yet planted due to the prolonged spring flooding, so crop losses were minimal. The river crested at 44.53 feet on the Cape Girardeau river gage on the evening of the 6th. This was the 8th highest crest on record, about 1.8 feet lower than the flood of 2011. Flood stage is 32 feet.

SCOTT COUNTY --- COMMERCE [37.15, -89.45], 1.3 ESE ILLMO [37.21, -89.48], 1.9 ESE ILLMO [37.21, -89.47], 1.1 ENE COMMERCE [37.16, -89.43]

06/01/13 00:00 CST 50K Flood (due to Heavy Rain) 06/25/13 22:00 CST 0.10M Source: River/Stream Gage

Major flooding occurred along the Mississippi River. There was extensive flooding of low-lying farm fields, and many county roads were closed.

Heavy rainfall across the Mississippi Valley during the last few days of May and first couple days of June sent the Mississippi River rising. Major flooding occurred on portions of the Mississippi River.

BUTLER COUNTY --- 1.1 SE POPLAR BLUFF [36.74, -90.38], 1.3 ESE POPLAR BLUFF [36.74, -90.38], 2.5 SSW (P02)POPLAR BLUFF AR [36.73, -90.34], 4.3 W BATESVILLE [36.70, -90.33], 2.5 W BROSELEY [36.67, -90.29], 1.3 WNW QULIN [36.61, -90.29], 3.0 W QULIN [36.61, -90.32]

 06/02/13 03:00 CST
 20K
 Flood (due to Heavy Rain)

 06/03/13 01:00 CST
 50K
 Source: River/Stream Gage

Minor flooding occurred along the Black River. Low-lying fields and woodlands were flooded, including some farm fields. The river crested about one foot above the 16-foot flood stage. Just south of Highway 53 on the west bank of the river, a small levee breach resulted in minor flooding of farmland around County Road 2024.

RIPLEY COUNTY --- 2.3 WNW DONIPHAN [36.63, -90.86], 1.4 WSW DONIPHAN [36.61, -90.84], 0.7 SW DONIPHAN [36.61, -90.83], 1.8 WNW DONIPHAN [36.63, -90.85]

 06/03/13 06:00 CST
 3K
 Flood (due to Heavy Rain)

 06/03/13 15:00 CST
 0
 Source: River/Stream Gage

Minor flooding occurred on the Current River at Doniphan. Low-lying fields, woodlands, and river access roads were flooded.

June turned out to be a very wet month across the region with many places 3 to 5 inches above normal. Heavy rain fell during the first two days of June and was scattered during the last half of the month. Many places saw more than 5 inches of rain fall for the month. The heavy rainfall across the Mississippi Valley during the last few days of May and first couple days of June sent many rivers rising. Minor flooding occurred on portions of smaller rivers, such as the Current and Black Rivers.

CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53], 2.5 NW MARQUETTE [37.30, -89.60], 4.7 ESE JACKSON [37.35, -89.59], 2.4 NNE CAPE GIRARDEAU [37.33, -89.51]

 06/17/13 11:50 CST
 0.20M
 Flash Flood (due to Heavy Rain)

 06/17/13 14:00 CST
 0
 Source: Trained Spotter

Flash flooding occurred at numerous major intersections throughout the city. Numerous vehicles were stranded on flooded streets, including at least one that floated away. A vehicle with several occupants nosedived into a creek. All the occupants were rescued safely. A total of 16 to 20 emergency responses were for flooded vehicles. One man was swept into a ditch but was unharmed. The Westerior/Silver Spring area was hardest hit by the flash flooding. An arena was flooded. At least several homes sustained some water damage. Rainfall rates were measured at nearly one inch per 30 minutes. Slow-moving thunderstorms trained northward across the city.

Thunderstorms developed and remained quasi-stationary in association with a surface low pressure center over the Mississippi River between St. Louis, Missouri and Cairo, Illinois. The storms were the result of the combination of the surface low, daytime heating, and a very moist atmosphere with precipitable water values approaching two inches. The storms were further enhanced by a 500 mb shortwave trough over southwest Missouri.

| PERRY COUNTY 4.5 WNW LITHIU | M [37.85, -89.96] | | | |
|-----------------------------|--------------------|---|-----------------------|---|
| | 06/26/13 18:00 CST | 0 | Hail (0.88 in) | |
| | 06/26/13 18:00 CST | 0 | Source: SHAVE Project | |
| | | | | |
| PERRY COUNTY PERRYVILLE [37 | .72, -89.87] | | | _ |
| | 06/26/13 18:12 CST | 0 | Hail (1.25 in) | |
| | 06/26/13 18:12 CST | 0 | Source: Public | |
| | | | | |

Hail ranging from quarter to half-dollar size was reported.

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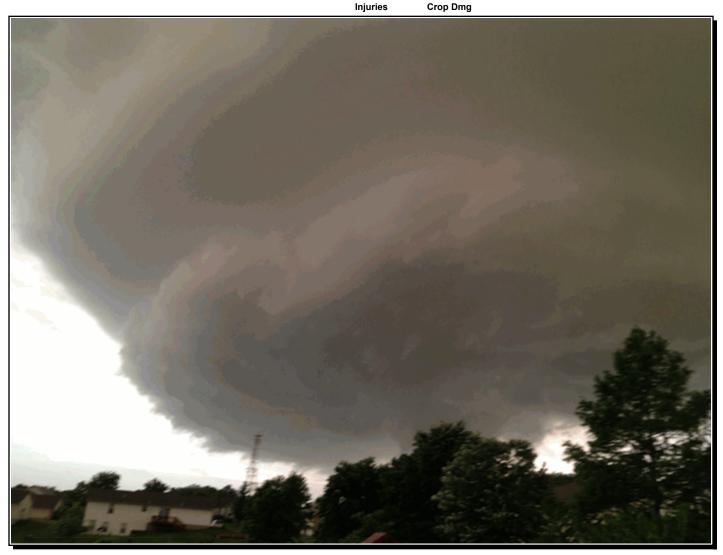
| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--|--------------------------|--|--|
| CAPE GIRARDEAU COUNTY | 5.0 W OLD APPLETON [37.58, -89.81], 1.5 N D | AISY [37.54, -89 | .80] | |
| | 06/26/13 18:50 CST | | 0 | Funnel Cloud |
| | 06/26/13 18:57 CST | | 0 | Source: Emergency Manager |
| phone video was taken at an l | nterstate 55 exit showing a rope-like funnel cloud. | | sputy observed the | e funnel from Interstate 55. A cell |
| phone video was taken at an l | | | sputy observed the | Statiller Hori interstate 66. A cell |
| | | | | Funnel Cloud |
| | nterstate 55 exit showing a rope-like funnel cloud 1.0 NNW JACKSON [37.39, -89.68], 2.0 S JACK | | 0.67] | |
| CAPE GIRARDEAU COUNTY A rotating funnel cloud and wa | 1.0 NNW JACKSON [37.39, -89.68], 2.0 S JACK 06/26/13 19:10 CST | KSON [37.35, -8 9 | 0.67] 0 0 unty, passing acros | Funnel Cloud Source: Trained Spotter ss the Jackson area. The funnel cloud |
| CAPE GIRARDEAU COUNTY A rotating funnel cloud and wa was videotaped and photograp | 1.0 NNW JACKSON [37.39, -89.68], 2.0 S JACI 06/26/13 19:10 CST 06/26/13 19:24 CST | KSON [37.35, -8 9 | 0.67] 0 0 unty, passing acros | Funnel Cloud Source: Trained Spotter ss the Jackson area. The funnel cloud |
| CAPE GIRARDEAU COUNTY A rotating funnel cloud and wa was videotaped and photograp | nterstate 55 exit showing a rope-like funnel cloud 1.0 NNW JACKSON [37.39, -89.68], 2.0 S JACI 06/26/13 19:10 CST 06/26/13 19:24 CST all cloud moved south-southeast across central Capabled by at least a few people. Trained spotters and | KSON [37.35, -8 9 | 0.67] 0 0 unty, passing acros | Funnel Cloud Source: Trained Spotter ss the Jackson area. The funnel cloud |

The funnel cloud was associated with the supercell as it rapidly weakened near Cape Girardeau.

A supercell thunderstorm developed over Perry County, producing large hail up to half-dollar size. The storm then acquired strong rotation as it moved south-southeast into Cape Girardeau County. A well-developed wall cloud and funnel cloud formed as the storm crossed from Perry County into Cape Girardeau County. These features persisted until the storm began to dissipate over southern Cape Girardeau County just west of Cape Girardeau. This supercell developed along the western edge of an expanding mesoscale convective system that started as a persistent cluster of thunderstorms over southwest Indiana. The convective system was supported by mid-level forcing associated with a weak disturbance, along with a low-level inflow of warmer air from the southwest. Modest westerly wind flow through the depth of the atmosphere increased the risk of potentially damaging winds and isolated supercells.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg



A well-defined wall cloud moved south-southeast across nearly the entire length of Cape Girardeau County. This wall cloud frequently produced a funnel cloud. This photo was taken at Jackson, Missouri by Craig Hasheider.

CARTER COUNTY --- 5.0 W VAN BUREN [37.00, -91.11], 2.0 E VAN BUREN [37.00, -90.98]

 06/28/13 02:40 CST
 10K
 Thunderstorm Wind (EG 52 kt)

 06/28/13 02:55 CST
 0
 Source: Emergency Manager

A few trees and numerous tree limbs were blown down countywide. M Highway was blocked by a tree near Van Buren.

A thunderstorm complex moved east-southeast from south central Missouri across the Ozark foothills of southeast Missouri. West-northwest winds of 35 to 40 knots in the mid levels of the atmosphere enhanced the potential for isolated damaging wind gusts. Steep lapse rates in the mid levels of the atmosphere combined with rich low level moisture supported the maintenance of the forward propagating convective system.

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